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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/735,710	12/12/2000	Frank H. Levinson	9775-0040-999	5579
22913	7590 12/28/2005		EXAMINER	
WORKMAN NYDEGGER			WANG, QUAN ZHEN	
•	KMAN NYDEGGER & JTH TEMPLE	SEELEY)	ART UNIT	PAPER NUMBER
••••••	GATE TOWER		2633	
SALT LAKE CITY, UT 84111			DATE MAILED: 12/29/2005	

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	()()			
	09/735,710	LEVINSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quan-Zhen Wang	2633				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 25 C	ctober 2005.					
·	action is non-final.					
<i>;</i> —	,—					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-59</u> is/are pending in the application						
4a) Of the above claim(s) <u>21,22 and 34-59</u> is/a						
5) Claim(s) is/are allowed.						
6) Claim(s) 1,10,13-15,19,20,23,24,26,29,30 and	/ 31 is/are rejected.					
7) Claim(s) 2-9,11,12,16-18,25,27,28,32 and 33	is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc		Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is ob	jected to. See 37 CFR	1.121(d).			
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO	·152.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority document	ts have been received.					
2. Certified copies of the priority document	ts have been received in Applicat	on No				
Copies of the certified copies of the prior	rity documents have been receive	ed in this National St	age			
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not receive	∍d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/29/01,1/15/02,10 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Invention 1, claims 1-20 and 23-33 for examination in the reply filed on October 25, 2005 is acknowledged.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "supplemental channel circuitry includes an RF data sampler for sampling data from the first data stream to generate a set of sampled RF data and circuitry for including the sampled RF data in the second data stream" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 13 and 29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 13 recites: "... the supplemental channel circuitry includes an RF data sampler for sampling data from the first data stream to generate a set of sampled RF data and circuitry for including the sampled RF data in the second data stream".

However, the instant specification does not describe the claimed invention in such a way as to enable one skilled in the art to make of use the claimed invention.

Claim 29 recites: "... sampling data from the first data stream to generate a set of sampled RF data and including the sampled RF data in the second data stream". However,

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the instant specification does not describe the claimed invention in such a way as to enable one skilled in the art to make of use the claimed invention.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 10, 14-15, 19-20, 23-24, 26, 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Admitted Prior Art (APA) in view of Bigham et al. (U.S. Patent US 5,684,799).

Regarding claims 1, 15, 19, 23, and 31, the APA discloses a return path transmitter (fig. 2) for use in conjunction with a local system that generates an analog RF data signal to be conveyed to a head end system, the return path transmitter comprising: a sample clock generator (fig. 2, clock generator 156) for generating a sample clock; an RF signal receiver (fig. 2, RF-receiver RF), coupled to the sample clock generator, for receiving and converting the analog RF data signal into a first data stream of digitized RF data samples at a rate determined by the sample clock; and an optical transmitter (fig. 2, optical transmitter 158 and 159) for converting the serialized RF data stream into a serialized optical data signal for transmission over an optical fiber. The APA differs from the claimed invention in that APA does not specifically that the system further comprising supplemental channel circuitry for providing a second

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data stream; a multiplexer coupled to the RF signal receiver and the supplemental channel circuitry to receive the first data stream and second data stream and to output a combined data stream. However, it is well known in the art to have a supplemental circuitry for providing a second data stream and use a multiplexer coupled to the RF signal receiver and the supplemental channel circuitry to receive the first data stream and second data stream and to output a combined data stream. For example, Bigham discloses a transmitter system (fig. 2) comprising a supplemental circuitry for providing a second data stream (fig. 2, for example, PAC data 136') and a multiplexer (fig. 2, RF combiner 144) to output a combined data stream (fig. 2, output data stream to e/o converter 154). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to incorporate a supplemental circuitry for providing a second data stream and use a multiplexer coupled to the RF signal receiver and the supplemental channel circuitry to receive the first data stream and second data stream and to output a combined data stream, as it is taught by Bigham, in the system of the APA in order to provide efficient transport of signaling traffic and interactive data.

Regarding claims 10 and 24, Bigham further teaches to transmit maintenance data (control data) (column 7, lines 23-27).

Regarding claims 14 and 30, Bigham further teaches that the supplemental channel circuitry is configured to generate the second data stream intermittently; the optical transmitter includes circuitry for inserting padding words into the combined data stream so as to maintain the combined data stream at a fixed data rate (fixed length and format) (column 10, lines 44-47).

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Regarding claim 26, Bigham further teaches receiving a third data stream (fig. 2, data stream 136) from a source (fig. 2, data source BCS 100) external to the return path transmitter, the third data stream having a data rate of at least 5 Mb/s (fig. 2, 45MB/s); and merging the first and third data streams into a merged data stream; wherein the combining includes combining the merged data stream and second data stream to generate the combined data stream (fig. 2, RF combiner 144).

Allowable Subject Matter

7. Claims 2-4, 5-9, 11-12, 16-18, 25, 27-28, and 32-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ghaibeh et al. (U.S. Patent US 5,926,478) teach a point-to-multipoint optical network for data transmission. Dapper et al. (U.S. Patent US 6,535,715 B2) disclose a hybrid/fiber coax video and telephony communication system with poly-phase filtering.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan-Zhen Wang whose telephone number is (571)

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272-3114. The examiner can normally be reached on 9:00 AM - 5:00 PM, Monday -

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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qzw

12/22/2005

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